Wyneremo sty. 2. $\frac{1}{1.} \frac{1}{x^{2}-1} + \frac{1}{x^{2}+x} = \frac{1}{x^{2}-x}$ 2 1 2 1 CF X - X CF 1 X CF 1 X X X #11x7-1 1 x(x-1) x01 x(x-1) x3 ~70/×+-1/×+0/×+1 $\frac{1}{(x-1)(x+1)} + \frac{1}{x(x+1)} = \frac{1}{x(x-1)} / x(x-1)(x+1) \quad D = \mathbb{R}(2-1,0,1)$ x + x-1 = x+1 x - 1 = 1 (x=2) D=R11-13 $\frac{2. -4x-3}{x+n} \le 4x / (x+n)^2$ (-4x-3)(x+1) = 4x (x+1) (x+1) [-4x-3-4x(x+1)] =0 (x+1) $(-4x^2-8x+3) \le 0$ 0=64-48=16 0=43. $f(x) = \frac{x+1}{x+2} = \frac{x+2-1}{x+2} = 1 - \frac{1}{x+2}$ D=12/4-23 ZWf = 12/4/3 + rosnie u predziatoch: (-2, +2); (-2, +20) 4. Z: X + 0 , T: X4+ 12 79 D: x4+12= x4+32+32 z merbunusu międny średnimi (A-6)

×4 + 3/2 + 2/2 > 3/4 3/2 /3

×4+ 12 73.327 ×4+12 73.3=9 (x+3)y = 1010= 1.10 10.1 2.5 5.2 · x+3=1 1 y=10 -1.(10) 6 x +3=10 1 y=1 -10-(-1) - × +3=2 1 y=5 -2.5) -5.(-2) · ×+3=5 1 y=2 · x+3=-11y=-10 Te pany to: + X+3 = -10 1 y =-1 (-2,10); (7,1); (-1,3); (2,2); · X+3= -2 1y=-5 (4,-10); (-13,-1); (-5,-5); (-8,-2) ×+3=-5 1/=-2 6. Nie jest poniemus nie spelmio definių funkyi molejaces M_1 $\times_1 = -1$ $\times_2 = 1$ *1 < x2, de f(x1) = -1 < 1 = f(x2) x +3x +0 1 x -3x +0 x2-3+0 1. $\frac{1}{x^2-3} + \frac{1}{x^2+3x} = \frac{1}{x^2-3x}$ x(x+3) 70 x(x-3) 70 XTO NX 7-3 XTONX73 $\frac{1}{(x-3)(x+3)} + \frac{1}{(x+3)} = \frac{1}{x(x-3)} / x(x-3)(x+3)$ (D=R){-3,934 X + Y-3 = X+3 (X = 6) 4. To somo co w grupie A

Tel X-170 D=R/L13 2. 4x-3 74x 1. (x-1) (4x-3)(x-1) > 4x (x-1) (x-1)[4x-3-4x(x-1)] 70 (x-1) [6x-3-6x2+4x] 70 (x-1) (-4x +8x-3) 70 5=64-48=16 V5-4 41=-8-4= 3 1XE(-0, 2) (1, 3) ×2=-8+4-1 3. f(w= \frac{\times +1}{\times -2} = \frac{\times -2 +3}{\times -2} = 1 + \frac{3}{\times -2} D=R/23 ZUF = RKA + molye v predristour: (-20,2); (2,+00) ×(y+3)=10 10=1-10 10.1 2.5 X=1 1 7+3=10 5-2 X = 10 14+3=1 -1. (10) -10-(-1) X = 2 1 y +3=5 -2.(5) -5-(2) X=5 1 y +3=2 X=-11 y+3=-10 3) Te pany to X=-10 ny +3=-1 (1,7); (10,-2); (2,2); (5,-1) Y=-21 y+3=-5 X=-5 1 4 +3=-2 (-1,-13); (-10,-4); (-2,-8); (-3,-5) 6. Nie 160 nie spelnis definigi fankyi molejącej. mp x1=-1 1 x2=1 *1 < x 2, ale f(x1) = -2 < 2 = f(x2)